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END THAT MESS WITH ATMS!





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COMPUTERNEWS

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Cover

This month's cover photos by Kathryn Bourne and Pat Smith depict the benefits of ATMS in the office environment.

Contents

ATS to ATMS Conversion	3
ATMS Short Courses	4
IPRINT Announced	5
Class E Plans	6
Communications & Small Systems News	7
MVS Sharp APL Test Successful	7
Ontario University Computing Conference	8
DEC-10 Security	8
Documentation for Fall Courses	9
Personnel Changes	10
Systems	
Directory	

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ATS TO ATMS CONVERSION

On June 2, a user forum was held at the Galbraith Building to announce the upgrade from ATS to ATMS. UTCS is converting to IBM's modern, easy-to-use Advanced Text Management System because of its enhanced function and reliability.

- As well as free documentation about the ATS to ATMS conversion, UTCS provides training courses in ATMS. See the following article for details.
- ATS charges have been \$4.55 per connect hour with no yearly maximum. Charges for ATMS will be \$5.00 per connect hour, to a yearly maximum of \$4,000 per Service Access Code (SAC). Charges for printing and storage will be the same as charged elsewhere on UTCS' services.
- ATMS consists of an editor and a formatter. With regard to the editor, if you presently use a start/stop terminal such as a Diablo or Volker-Craig, you will find ATMS similar to ATS. If you use a full-screen terminal (cursor-driven, 3270-type), you will find ATMS very easy to learn.

The ATMS formatter feature is virtually independent of the terminal and is similar to the ATS formatter it supersedes.

- ATMS will be running under MVS on the 3033 Model N8 machine which replaces the S/370-165-II in August.

Those who used ATS from June 1979 to May 1980, referred to here as *active* users, will automatically receive a new 370 Service Access Code (SAC) and password for ATMS. This material will be mailed to users. Any user who wishes to have a SAC and who doesn't qualify under the above terms should contact the UTCS Accounting Office at 978-3960.

As part of the conversion to ATMS, *active* ATS users will have all their material converted from ATS permanent storage to ATMS permanent storage. Those users

who don't qualify as *active* will have their material archived. UTCS will preserve these archives for seven years. If you want to archive your material and preserve it yourself, contact Operations Supervisor Paul Scarborough at 978-6200. UTCS will convert any archived material to ATMS free of charge, for one year.

Incidental to users is the fact that the system will be running on the administrative 3033 Model N8. Users who have access to administrative 3270-type terminals (SRS, BIS users) can immediately take advantage of the full screen facilities provided by ATMS. Future changes to software and telecommunications facilities will allow 3270 terminals to be used on either computer.

ATS was originally modified at UTCS to provide a Remote Job Submission and Retrieval system. This was done when no good RJE facility was available. Now WYLBUR is the system that performs this function. In moving to ATMS, the ability to submit batch jobs and to retrieve output from the operating system will be suppressed.

Anyone interested in testing a production version of the system in mid July should contact Frank Spitzer at 978-4619.

Implementation Schedule

1. July 14: Documentation distributed to all ATS users converting to ATMS.
2. July 21: Training for new users commences.
3. July 21: Test production system available for limited use.
4. August 8: All ATS material permanently archived.
5. August 11: ATMS goes into production. No ATS facilities available between August 8-11.

Frank Spitzer

ATMS SHORT COURSES

General Information

Beginning July 21st UTCS will offer 5 short courses in word processing using ATMS (Advanced Text Management System). The first two courses are for the current ATS user who will be immediately upgrading to ATMS. The third and fourth courses will be for people with no previous word processing experience. The fifth course provides a general overview of word processing and office automation and will be available on request. It is a 1 to 1-1/2 hour seminar.

For registration and information, call the UTCS Information Office (978-4990) located in room 206 of the Engineering Annex building, 11 King's College Road.

Special arrangements can be made for users from the Scarborough and Erindale Campuses.

ATMS Conversion Short Course - A

Who Should Attend?

Current ATS users who are upgrading to ATMS and who use a terminal other than a 3270-type device. This includes users of Diablos and Volker-Craigs.

Prerequisites

Previous ATS experience
ATMS SAC (Service Access Code)

Course Content

ATMS Overview
How to sign on and sign off

ATS to ATMS comparisons in editing
ATS to ATMS comparisons in formatting
ATS to ATMS conversion documents
ATMS archiving
ATMS and the future

Course Format

2 days, for 3 hours each day
9:00 to 12:00 each day

July 24 and July 25
July 31 and August 1
August 8 and August 11

Where

McLennan Labs, 60 St. George St., Room 347

ATMS Conversion Short Course - B

Who Should Attend?

Current ATS users who are upgrading to ATMS and who use full screen terminals (IBM 3270-type terminals)

Prerequisites

Previous ATS experience
ATMS SAC (Service Access Code)

Course Content

ATMS Overview
3270 features
How to sign on and sign off
ATS to ATMS comparisons in editing
ATS to ATMS comparisons in formatting
ATS to ATMS conversion documents
ATMS archiving
ATMS and the future

continued...

ATMS III Courses (Advanced Text Management System)

ATMS will replace ATS Monday, August 11

ATMS III is UTCS' newest text editor/text formatter

Some of its many features:

- . full screen editing
- . extended formatting features
- . supports a variety of terminals.

ATMS Conversion Short Course A

- ATS to ATMS training on **non 3270-type terminals**
- begins July 24

ATMS Conversion Short Course B

- ATS to ATMS training on **3270-type terminals**
- begins July 21

ATMS #1 Short Course

- for new users to text processing on **non 3270-type terminals**
- begins September

ATMS #2 Short Course

- for new users to text processing on **3270-type terminals**
- begins September

For More Information
Call your C.S.R.
or
UTCS Information Office, 978-4990

ATMS SHORT COURSES continued**Course Format**

3 days, for 3 hours each day
9:00 to 12:00 each day

July 21 to July 23
July 28 to July 30
August 5 to August 7

Where

McLennan Labs, 60 St. George St., Room 347

ATMS #1 and #2 Short Course**Who Should Attend?**

People who have no previous word processing experience and who wish to use UTCS facilities for ATMS.

Prerequisites

ATMS SAC (Service Access Code)

Course Content

ATMS #1 for non 3270 terminal users
ATMS #2 for 3270-type terminal users

Word Processing Overview
ATMS Overview
How to sign on and sign off
How to enter and edit text
How to format text
How to archive text
UTCS future plans with ATMS

Course Format

5 days, for 2 hours each day
10:00 to 12:00 each day

Beginning in September.
Dates, times and locations to be announced.

Where

McLennan Labs, 60 St. George St., Room 347

IPRINT ANNOUNCED

In early June, UTCS announced the product IPRINT. This program, a successor to IBMLST, was designed to be easier to use and more functional than IBMLST. IPRINT prints DEC-10 files on UTCS line printers as does IBMLST. But IPRINT allows each user to modify the print file so that character translations are done. Thus, each user is allowed more control of his printed output. For example, suppose a file is to be printed on the SELFSEV printer in the Engineering Annex. There are no left and right square brackets on this printer. Using IBMLST, these characters would be printed as blanks. Using IPRINT these characters could be printed as *any* character on the print chain - for example, angle brackets could be substituted for the square brackets. Character substitutions can be set up to be printer specific so that the same substitutions are done at the same

printers all the time.

IPRINT makes use of the options file (SWITCH.INI) so that each user needs to deal only once with individual printer setups. The desired option is selected from the options file by means of a name chosen by the user. The net effect is that print requests using IPRINT do not require any nasty command syntax once the options file is set up. In addition IPRINT uses the standard TOPS-10 command scanner (which IBMLST does not) allowing it to obey all file access conventions. This includes Sub File Directories (SFDs) and multiple filenames in a single request.

IPRINT is invoked via a monitor command called IPRINT. This command will accept one print request and return charging and queueing information. IPRINT is not, and

continued...

IPRINT ANNOUNCED continued

was not intended to be, 'upwards compatible' with IBMLST. New switches have been added, names changed and some switches are no longer available. Most significantly the IBMLST 'J' switch is not available in IPRINT meaning that IPRINT cannot be used to do file transfers to TSO and WYLBUR datasets. Future enhancements to IPRINT will allow file transfers to TSO and WYLBUR.

Users are advised to use IPRINT instead of IBMLST because IPRINT is a newer product, more in step with other DEC-10 utilities, and it is easier to use. IBMLST will

continue to be available, but support for it will be dropped once IPRINT becomes established.

Documentation for IPRINT can be found in a help file (via HELP IPRINT) and in the file DOC:IPRINT.DOC. The 'DOC' file contains a list of IPRINT error messages and recovery instructions. Hopefully users will be less mystified after an IPRINT error than after an IBMLST error. For help with setting up character translations, consult your CSR or the USERBOOK section 3.8PRINTTRAINS.

Corot Reason

CLASS E PLANS

Class E is a low cost, execution-only service designed to meet the needs of users with large FORTRAN programs. Class E jobs are currently executed on the S/370-165-II computer. To maintain low computing costs, there is very little software on this machine. In particular, the absence of compilers means that only compiled load modules can be executed and the absence of run-time libraries allows only FORTRAN programs to execute. ASSEMBLER programs can also be run, but few of these are large enough to make Class E very cost effective. Since Class E is designed for large programs, the charge for CPU time usage is \$0.50 per minute with a minimum charge of \$15. Since its conception in May of 1979 the Class E service has seen a steady growth in usage.

As discussed in previous *COMPUTER-NEWS* articles, UTCS will replace the S/370-165-II computer later this summer. Class E will be moved to one of the 3033N8s. The charging algorithm will be adjusted to reflect any differences in the execution speeds of these two machines but only in the sense that Class E users will receive the same computing for the same cost as they now receive on the S/370-165-II. Other features of Class E to be maintained

are:

- the minimum \$15 charge will still apply
- Class E will still be a separate service, distinct from Class C
- Class E programs running today on the S/370-165-II will still execute successfully, without modification, on the 3033N8 Class E

Class E will be enhanced as follows:

- software available to Class A, B and C programs will now be available to Class E programs; it will be possible to compile **and** execute source code in a Class E job
- WYLBUR and TSO users will be able to fetch Class E jobs to their terminals
- Class E users will no longer be subject to higher disk storage rates since a special disk pack won't have to be set aside for Class E

The computing demands made on the 3033N8s will be greater than those made on the S/370-165-II. As a result it will be necessary to restrict the hours during which Class E jobs can execute. It is planned that Class E jobs will execute during the same off-hours as Class C jobs presently execute.

In summary, Class E will be more than an

continued...

CLASS E PLANS continued

execution-only service and will be accessible to users with large programs written in languages other than FORTRAN.

The Class E service on the 3033N8 will

commence in August. UTCS is currently finalizing its Class E plans and dates and is preparing documentation.

Bob Chambers

COMMUNICATIONS AND SMALL SYSTEMS NEWS

The Communications and Small Systems (CSS) Lab now offers DECGRAPHICS-11 from Digital Equipment. This is a Fortran callable graphics package for use on PDP11s with VT11 or VS60 graphics scopes like the lab's GT40 and GT44 systems. It combines short, concise calling sequences with easy-to-understand functionality.

The package is able to manipulate lines, points and text, all with adjustable characteristics, and is able to collect any combination of these so that they may be accessed

later as a single group. Within the group, each graphic figure may still be adjusted or replaced. The formation of these graphic 'groups' is quite similar to the subroutine concept and brings with it all the power of subroutines.

DECGRAPHICS-11 will soon be combined with other software packages to provide the customer with a viable and completely interactive graphics tool.

Phil Girouard

MVS SHARP APL TEST SUCCESSFUL

The MVS version of Sharp APL, tested by a selected group of users, has proved highly successful in that only minor problems appeared.

The test system proved stable and work is now in progress to complete a benchmark stream which will be completed by mid July. This benchmark stream will be used to verify that accounting rates between the new MVS system and the current production APL system on the 370/165 are as equivalent as possible. The accounting rates on the MVS test system were not correct despite the fact that the algorithms for calculation were shown to be valid. As a result, the benchmark stream will be used for future adjustment of rates.

Local modifications are in the process of completion. A test conversion run is being planned and an August production date is anticipated.

A comprehensive, user's conversion document is being prepared to define everything the user needs to know for conversion. Two interesting changes are:

1. Default file size is now 100,000 bytes, not 50,000 bytes. In addition, file sizes will be slightly different on the new system, i.e.,
 - . small files will be slightly larger
 - . large files (approximately 1 megabyte) will be slightly smaller
2. The first six elements of `2DWA3` no longer return the information that they previously did, this information is now available from system-queued variables.

continued...

MVS SHARP APL TEST continued

Users with questions should contact their CSR.

These and all other changes will be fully documented in the conversion guide.

Eric Haberfellner

ONTARIO UNIVERSITY COMPUTING CONFERENCE

During the week of June 2nd, Queen's University hosted the 11th Ontario University Computing Conference (OUCC). The theme of the conference was *Interface -- how will users be interfaced to the computers of the 1980s?* The complete proceedings of the conference will soon be available in the Information Office.

COMPUTERNEWS acknowledges the contributions made to the conference by two members of the University of Toronto community. Prof. J.C. Hurd of Trinity College participated in a panel discussion on the computing needs of humanities users. Ms

Beth Ralbosky, a U of T internal auditor, gave a presentation on aspects of computer security which concern auditors of computing systems. Both speakers were well received and we thank Prof. Hurd and Ms Ralbosky for sharing their time and ideas.

The 12th OUCC will be hosted by UTCS. The conference theme and exact location have yet to be determined. We encourage readers to contribute any ideas they might have regarding potential topics of interest.

Don Gibson

DEC-10 SECURITY

People often have questions about security on the DEC-10. The following article answers questions regarding password and file security.

PASSWORD security.

By far the weakest part of the whole security system on the DEC-10 (and, for that matter, any password protected system) is the passwords themselves. People often write their passwords down where anyone can read them or else use passwords that can be easily guessed, like the owner's name or birthday, etc. Your password should be in your head and nowhere else and it should not be the kind of word that can be guessed. Once these two maxims are accepted, a user is much less likely to be involved in any sort of security problem. If you give your password out for any reason

then you should change it soon after. Changing your password regularly, perhaps monthly, is a good idea. To change your password on the DEC-10 you must tell the system at login time that you wish to do so. For example this fragment shows how a password change is done:

```
.LOG 1234,5678/PASSWORD
.....message....
Password:
New Password:BFSPLK
```

The system prompts you for your new password. Note that the new one actually gets printed, so be very careful to destroy this record.

Passwords are kept by the system in an encrypted form that cannot be unencrypted. If you forget your password, the accounting

continued...

DEC-10 SECURITY continued

office can set it for you. However this can only be done during the working day. The operators have no power to change your password.

FILE security.

The files you create are very secure as long as you keep the files (or your entire directory) protected appropriately. The default protection for a new file is <077> which means that only your PPN has access to that file. A protection of <055> means anyone can read the file. <057> means only people in your project can read the file. If you 'lower' the protection on a file then you must remember to 'raise' the protection later if you want the file kept private.

For those who have difficulty remembering this sort of thing or for those who are especially concerned about file security, you can protect your entire directory from access by others regardless of the individual file protections. To accomplish this, do the following:

```
.PROT [1234,5678].UFD<700>
```

where 1234,5678 is your own PPN. With this completed no other user can read your

files at any time. This action does NOT affect the daily, weekly and monthly backups that are taken of all the files on the system. They are taken regardless of protection. Note that protection codes for directories are not interpreted in the same way as for files. 700 is a 'lower' protection for files than is 777 but this is not the case for directories.

People interested in more selective file access control should use the *file daemon*. To do this your directory (your 'UFD') must NOT be protected <700> but rather as it was set up, as <755> and you should read about the file daemon in the file DOC:FILDAE.MEM. Caution should be taken with the file daemon. Make sure that your selective file access scheme is working as you intended.

Those who use SOS can encrypt files with SOS giving even greater security. It is questionable as to whether there is any use in encrypting a file in a secure system, but perhaps someone might want to do it for peace of mind.

Any questions about security matters or the file daemon should be addressed to your CSR or to the timesharing advisor at 6465.

Corot Reason

DOCUMENTATION FOR FALL COURSES

The UTCS Information Office requires at least six weeks advance notice for the ordering of documentation for fall courses. This applies to IBM manuals, USERBOOK sections, reference cards and HOW TO USE instruction booklets.

Please direct your requests, in writing, to

Dawne Smith at the Information Office, Room 206, Engineering Annex. The request should include the title, order number (when relevant) and number of copies of the document required.

Dawne Smith

PERSONNEL CHANGES

As of June first, Samuel Harrichand is working for UTCS in Operations and Ai-Chung Seto is a new Key punch Operator in

Administrative Computing Services. Welcome.

Theresa Veira

UTCS SYSTEMS

3033/N8A PROCESSOR

- located in McLennan Physical Laboratories
- provides General Purpose Job Stream, High Speed Job Stream, TSO, WYLBUR
- 8 megabytes of memory
- MVS with JES2

SYSTEM/370 MODEL 165-II

- located in McLennan Physical Laboratories
- provides APL and ATS services
- 4 megabytes of memory
- OS/MVT with APL and ATS

3033/N8B PROCESSOR

- located in McLennan Physical Laboratories
- provides administrative IMS/VS DB/DC Batch and TSO services
- 8 megabytes of memory
- MVS with JES2

DECSYSTEM-10 Model 1090

- located in Sandford Fleming
- provides General Purpose Time-Sharing
- 256 K - 36 bit words of memory
- TOPS-10 operating system

COMMUNICATIONS & SMALL SYSTEMS (CSS)

- located in SF106
- DEC GT44 System with PDP-11/40 CPU
- 2 Z80 based microcomputers
- DEC GT40 System with PDP-11/05 CPU
- provides specialized graphics and inter-active graphics
- provides on-line and real-time computing services, data acquisition and minicomputer services

UTCS DIRECTORY

POSITION	ROOM	CENTREX PHONE NUMBER
Director		
Dr. Doron Cohen	MP350	8948
Associate Directors		
Rein Mikkor	MP350	5058
Al Heyworth	MP350	4936
Faculty Liaison Officer		
Dr. Frank Spitzer	MP350	4619
Manager, Communications & Small Systems		
Eugene Siciunas	MP350	4967
Manager, Operations		
Derry Cox	MP350	7092
Manager, Systems		
Ward Beattie	MP350	3579
Manager, Academic Computing Services		
Ralph Lombardi	MP350	7130
Manager, Administrative Computing Services		
Walter Berndt	MP350	7331
Manager, Services Support		
Don Gibson	MP350	5568
Administrative Officer		
Suzan Fawcett	MP350	4428
Information & Accounting Office		
General Inquiries	EA206	4990
Accounts		
Aggie Stevens (U of T)	EA206	8702
Sylvia May (External)	EA206	7148
Supervisor, Accounting & Information Services		
Marg Doherty	EA209	3960
Access Codes		
Michelle Mule	EA206	8703
Supervisor, Communication Systems		
Walter Rosocha	SF105	7087
Programming Services		
Bill Lauriston	SG201	6877

continued...

UTCS DIRECTORY continued**Entry Services**

Supervisor		
Vera Cabanus	MP368	5040
Text Entry		
Dale Wright	MP368	4565
Data Entry		
Zelda Anderson	HU405	5273
Keypunching		
Dale Wright	MP368	4565

Tape Librarians

Academic Services	ML368	7319
Administrative Services	ML368A	6693

Supervisor, Applications

Herb Kugel	SG304	7286
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Computing Services Representatives

Engineering Annex Terminal		
Sue Chong	EA201	4357
Program Advisors	EA103	
Time-Sharing Support		
TS Advisors	SG204	6465
Mark Tapia	SG204	7109
Erindale		
	2043	828-5311
Scarborough		
Bob Blackburn		284-3173
Arts and Science		
Bill Fehlner	SS2133	6509
New Physics		
Bob Chambers	MP1202	8823
External		
Ihor Prociuk	SG205	6875,6885

Supervisors, Operations

Paul Scarborough (IBM 3033-IBM 165)	MP335	6220
Krishna Patnaik (DEC-1090 & CSS)	SF106	4086
Dave Wong (IBM 3031)	MP335	6864

Key:

EA = Engineering Annex	SF = Sandford Fleming
SG = 49 St. George	SS = Sidney Smith
HU = 215 Huron St.	
MP = McLennan Physical Laboratories (New Physics)	

Job and System Status Queries

SYSTEM/3033,TSO	7373
ATS/APL	6234
2741 TERMINAL MALFUNCTIONS	7107

Time-Sharing**Services**

APL,ATS

TSO,WYLBUR

DEC-10 Services

PHONE-IN ADVISING

Dial-Up

7200 Centrex
 7201 Non Centrex
 6200 Centrex
 6201 Non Centrex
 4224 Centrex
 4244 Non Centrex
 6465



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COMPUTING SERVICES
TORONTO, CANADA